Wisconsin Department of Transportation GENERAL ECONOMICS IMPACT EVALUATION

Alternative: C (VP/VE 4R) Is this the Preferred Alternative? Yes	Portion of project this sheet is evaluating if different from the first Basic Sheet

1) Describe, briefly, the existing economic characteristics of the area around the project. This could include type(s) of farming, retail or wholesale businesses, manufacturing, tourism, or other elements contributing to the area's economy and potentially affected by the project.

The economic characteristics of the project area vary in conjunction with the land use. The area surrounding the project north of the Big Rib River is primarily commercial and industrial with some scattered residential. Recreational activity is present due to nearby Rib Mountain, the Big Rib River, and other parks. Commercial activity is generated by several large retailers, some small retail businesses, grocery stores, restaurants, and professional office buildings. Both heavy and light industry are present in the area. A hospital/insurance complex is also present.

2) Discuss the economic advantages and disadvantages of the proposed action. Indicate how the project would affect the characteristics described in item 1 above.

The proposed action would improve the operational characteristics of the roadway system in and outside of the interchange area. Reduced congestion will allow for motorists to move more freely and quickly between destinations. This improved mobility will allow more motorists to move throughout the area to visit the commercial properties. Improved regional mobility will let businesses and manufacturers move goods more efficiently in and outside of the Wausau area. The improved geometric configuration of the interchange and local roadways will reduce fuel consumption and travel times.

The interchange improvements will reduce the potential for incidents. A reduction in incidents will reduce economic loss due to loss of life, personal injury, and property damage.

The addition of recreational facilities on local roads such as sidewalks and bike paths will provide opportunities for more recreational users to enter the area. The business generated by these users will enhance the economy of the area.

There will be commercial relocations associated with the preferred alternative. Although the businesses will no longer be at their present location, they will be relocated within the Wausau area.

3) In general, will the proposed action increase or decrease the potential for economic development in the area influenced by the project.

The improved interchange area, including the local streets, will allow for easier and more efficient travel in and through the Wausau area. The reconfiguration of the interchange will provide some land in the area to be used for business relocations and potential future development. There is also great potential for businesses and industries to move to the Wausau area due to these improvements.

Wisconsin Department of Transportation COMMUNITY OR RESIDENTIAL IMPACT EVALUATION

Alternative: C (VP/VE 4R)	Portion of project this sheet is evaluating if different from First Basic
Preferred? Yes	Sheet

1) Give a brief description of the community or neighborhood affected by the proposed action.

Community/neighborhood name

The project is located within the Town of Rib Mountain, Town of Stetin, and City

of Wausau.

Community/neighborhood population Town of Rib Mountain – 7,556

Town of Stettin – 2,191 City of Wausau – 38,426 Community is un-incorporated Yes Community is un-incorporated Yes Community is un-incorporated No

This information was obtained from the U.S. Census website www.census.gov.

Community/neighborhood Characteristics

The Town of Rib Mountain has a population of 7,556. Of this population, 3.5% are minority and 9.7% are over the age of 65. The median age is 38. There are 2,697 households in the township with 99.1% of the population living in these households. The average family size is 3.08 people.

The Town of Stettin has a population of 2,191. Of this population, 3.2% are minority and 11.9% are over the age of 65. The median age is 40.3. There are 805 households in the township with 100% of the population living in these households. The average family size is 3.01 people.

The City of Wausau has a population of 38,426. Of this population, 14.1% are minority and 17.1% are over the age of 65. The median age is 36.5. There are 15,768 households in the city with 96.6% of the population living in these households. The average family size is 3.08 people.

In Marathon County 26.8% of the population is under the age of 18 while 13.0% is over the age of 65. The 1995 median household income was \$40,078. Marathon County experienced a 5.8% increase in population between 1990 and 1995.

This information was obtained from the U.S. Census website www.census.gov.

2) Identify and discuss the existing modes of transportation and their traffic within the community or neighborhood

Automobiles are the main transportation mode in the communities and comprise nearly all of the traffic generated. The City of Wausau has a public bus system. The city also has a paratransit service to transport people to and from the hospital complex. Neither of these services extend into the Town of Stettin or Town of Rib Mountain. A taxi service does provide service for all of the communities.

There are few sidewalks and bike paths in the project area.

The Wausau Municipal Airport is located within two miles of the project area.

3) Identify and discuss the probable changes resulting from the proposed action to the modes of transportation and their traffic within the community or neighborhood.

Few changes are expected to the existing modes of transportation due to the proposed action. Traffic will operate in a more efficient and safe manner after construction.

Proposed sidewalks and bike paths will promote pedestrian and bike travel throughout the area. These types of transportation promote fitness and benefit the community by improving health.

4) Briefly discuss the proposed action's effect(s) on existing and planned land use in the community or neighborhood.

The proposed action is consistent with the land use in the area. Most of the land within the proposed interchange is zoned for commercial and industrial use. The land surrounding the area not used for roadway purposes will continue to be commercial and industrial land. The improved access and mobility to this land will be a benefit by efficiently moving customers and goods in and out of the area.

The residential neighborhoods close to the project area will remain unaffected by the proposed action. These neighborhoods are fully developed and no relocations are planned in these areas. Residents will have a new local street system that will provide easier access to the businesses in the area and the surrounding communities.

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5) Address any changes to emergency services or other public services during and after construction of the proposed project.

Emergency service and public services should be relatively unaffected during construction. The construction will be phased over several years. Access to the hospital complex will be maintained at all times. Although some roads may be closed during different phases of construction, access to the adjacent roadways and communities will be maintained. Coordination between contractors and local emergency services will be required during construction.

After construction emergency and public services will have more efficient access to the hospital complex due to the changes in the local road system and access points to the freeway. Responding to incidents on the freeway will also be easier due to the increased shoulder widths and expanded bridges. The proposed West Arterial and McCleary Bridge projects will also add relief during and incident by allowing traffic to be rerouted to these roadways. Currently the only crossing of the Big Rib River is USH 51/STH 29 and CTH N.

6) Describe any physical or access changes and their effects to lot frontages, driveways, or sidewalks. This could include effects on side slopes or driveways (steeper or flatter) reduced terraces, tree removal, vision corners, sidewalk removal, etc.

Access from USH 51 to the local road system will remain much as it is today with diamond interchanges at STH 52 (Stewart Avenue), and West Bridge Street and a half diamond interchange at Sherman Street. Access from STH 29 to the local road system will be consolidated from the existing loop ramps at 28th Street and the STH 52 intersection to one intersection with STH 52. This will ease driver confusion and provide a "gateway" to the City of Wausau.

Access and driveways to businesses that remain will be mostly unaffected. Access points may be consolidated to eliminate friction points in an attempt to improve safety by reducing accidents. Sidewalks will be added in front of most of these businesses.

Intersections will be expanded and relocated. New right-of-way will be required to accomplish these improvements. Proper vision triangles and sight distances will be accommodated during design of these intersections.

Access between USH 51 and STH 29 will be accommodated by proposed system to system free-flow interchange. This will replace the existing diamond interchange at Stewart Avenue.

7) Indicate whether a community/neighborhood facility will be affected by the proposed action and indicate what effect(s) this will have, overall, on the community/neighborhood. Also include and identify any minority population or low-income population that may be affected by the proposed action.

None will be affected.

8) Place an "X" in the appropriate box below if one of the populations indicated would be affected by the proposal. Give a brief description of the community/neighborhood and population affected by the proposed action. Include demographic characteristics of those affected by the proposal.

For the populations shown below, The Orders issued by the U.S. Department of Transportation and its implementing agencies to satisfy the requirements of Executive Order 12898 require an evaluation to determine whether a minority and/or low income population would experience a disproportionately high and adverse effect. If any of the populations shown below are affected, the Environmental Justice Factor Sheet, along with the remaining items on this worksheet, will need to be completed to satisfy Environmental Justice requirements

a) 🗵	NO Disabled population is not affected
	☐ YES Disabled population is affected – See Environmental Justice Factor Sheet
b) 🛚	NO Elderly population is not affected
	☐ YES Elderly are affected - See Environmental Justice Factor Sheet
c) 🗵	NO Minority populations are not affected
	☐ YES Minority populations are affected - See Environmental Justice Factor Sheet
d) 🗵	No Low-income populations are not affected
	☐ Yes Low income populations are affected - See Environmental Justice Factor Sheet

9) Identify and discuss, in general terms, factors that residents have indicated to be important or controversial.

It was noted several times during the public involvement process that the improvements were necessary to relieve traffic congestion in the area. Concern was raised over which businesses would be relocated with the understanding that some would be relocated regardless of the alternative chosen.

10) Indicate the number and type of any residential buildings which would be removed because of the proposed action. If either item a) or b) is checked, items 11 through 18 do not need to be addressed or included in the environmental document.

a) 🛛 None -

b) No occupied residential building will be acquired as a result of this project.

c) Occupied residential building(s) will be acquired. Provide number and description of buildings, e.g., single family homes, apartment buildings, condominiums, duplexes, etc. If item c) is checked, you must complete items 11 through 18.

11) Estimate the number of households that would be displaced from the Occupied residential buildings identified in item 10 c) above.

Total Number of households to be relocated

(Note that this number may be greater than the number shown in 10 c) above because an occupied apartment building may have many households.)

i) Number by Ownership

Number of households living in owner-occupied building

Number of households living in rented quarters

ii) Number of households to be relocated that have:

1 bedroom 2 bedrooms

3 bedrooms 4 or more bedrooms

iii) Number of relocated households by type and price range of dwelling

Number of single- family dwellings in the price range of

Number of single- family dwellings in the price range of

Number of multi-family dwellings in the price range of

Number of multi-family dwellings in the price range of

Number of apartments in the price range of

Number of apartments in the price range of

- 12) Describe the relocation potential in the community.
- a) Number of available dwellings that have:

1 bedroom 2 bedrooms

3 bedrooms 4 or more bedrooms

b) Number of available and comparable dwellings by location

Number of available and comparable dwellings within

Number of available and comparable dwellings within

Number of available and comparable dwellings within

c) Number of available and comparable dwellings by type and price. (Include dwellings in price ranges comparable to G:\SDATA\@Sai\051--100\089\100\Corridor_Tasks\Env_Doc\Env_Doc\Wrd\envirodoc\eafactorcomplete.doc

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tho	se being dislocated, if any.)						
	Number of available and comparable single family dwellings in the price range of						
	Number of available and comparable single	family dwellings in the price range of					
	Number of available and comparable single	family dwellings in the price range of					
	Number of available and comparable multi-	family dwellings in the price range of					
	Number of available and comparable multi-	family dwellings in the price range of					
	Number of available and comparable multi-	family dwellings in the price range of					
	Number of available and comparable aparti	ments in the price range of					
	Number of available and comparable aparti	ments in the price range of					
	Number of available and comparable aparti	ments in the price range of					
13)	Identify all the sources of information use	ed to obtain the data in item 12.					
	WisDOT Real Estate	☐ Multiple Listing Service (MLS)					
	Newspaper listing(s)	Other - Identify:					
14)	Indicate the number households to be rel	ocated that have the following special characteristics:					
	Number of minority households	Number of elderly households					
	Number of households with disabled resident	ents. Number of low Income households					
	Number of households made up of a large	family (5 or more individuals)					
	Number of households for which it is not k	nown whether they have special characteristics					
	Number of households with no special cha	racteristics					
	Describe how relocation assistance will build build build build build build be used to b	e provided in compliance with the WisDOT Relocation Manual or FHWA					
16)	Identify any difficulties or unusual condit	ions for relocating households displaced by the proposed action					
•	•	stance Service will be needed? Describe any special services or housing ties or unusual conditions noted in item #14 above					

18) Describe any additional measures which would be used to minimize adverse effects or provide benefits to those relocated, those remaining, or to community facilities affected.

☐ No

 $\hfill \square$ Yes - Describe services that will be required

Wisconsin Department of Transportation ECONOMIC DEVELOPMENT AND, BUSINESS IMPACT EVALUATION

Alternative: C (VP/VE 4R)	Portion of project this sheet is evaluating if different from the first Basic Sheet
Preferred alternative - Yes	

1) Describe the economic development or existing business areas affected by the proposed action.

The proposed action will impact the area of commercial development located primarily between Sherman Street, 28th Avenue, STH 29, and USH 51/STH 29. This area is made up of several commercial buildings that house businesses primarily in the service and professional field. Approximately 33 businesses will require relocation as a result of the proposed action. There are four nationally known retail chains/franchises present, three of these will need to be relocated.

There is little room for new economic development in the existing immediate interchange area. The proposed action will geometrically reconfigure the roadways so that land once occupied by highway will now be available for economic development or business relocation.

2) Identify and discuss the existing modes of transportation and their traffic within the economic development or existing business area.

Automobiles and trucks are the primary mode of transportation in the area. Congestion regularly occurs in the project area because of the number of vehicles using the roadway. The proposed action is meant to eliminate this congestion and promote more efficient traffic movement in the area, which in turn will benefit the overall economy.

The City of Wausau has a public bus service that extends to the outer limits of the city but does not serve the Town of Stettin or Town of Rib Mountain. The City of Wausau also offers paratransit service to and from the hospital complex. A taxi service does offer service to all areas.

There are a limited number of bicycle trails and sidewalks in the project area. The proposed action would increase these numbers to invite more pedestrian traffic and recreational bicycling into the area. The additional bike facilities are being proposed to complete the existing gaps in some regional trails. This increase in pedestrian traffic would potentially increase customers and economic vitality in the area.

The Wausau municipal airport is located within two miles of the interchange area.

3) Place an "X" in the appropriate box below if one of the populations indicated would be affected by the proposal. Give a brief description of the community/neighborhood and population affected by the proposed action. Include demographic characteristics of those affected by the proposal.

For the populations shown below, The Orders issued by the U.S. Department of Transportation and its implementing agencies to satisfy the requirements of Executive Order 12898 require an evaluation to determine whether a minority and/or low-income population would experience a disproportionately high and adverse effect. If any of the populations shown below are affected, the Environmental Justice Factor Sheet, along with the remaining items on this worksheet, will need to be completed to satisfy Environmental Justice requirements

a)	NO Disabled population is not affected
b)	 ✓ YES Disabled population is affected - See Environmental Justice Factor Sheet There are disabled employees working for businesses that will be relocated as part of the proposed action. ✓ NO Elderly population is not affected
c)	 ✓ YES Elderly are affected – See Environmental Justice Factor Sheet There are elderly employees working for businesses that will be relocated as part of the proposed action. ✓ NO Minority populations are not affected
d)	 ✓ YES Minority populations are affected - See Environmental Justice Factor Sheet There are minority business owners and employees that will be relocated as part of the proposed action. ✓ No Low-income populations are not affected
	☐ Yes Low income populations are affected - See Environmental Justice Factor Sheet

4) Identify and discuss effects on the economic development potential and existing businesses that are dependent upon the transportation facility for continued economic viability.

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	The proposed pro	ject will have no	effect on	a transportation-depe	endent l	ousiness	or inc	dustry.	
Ide Sev prin son	entify effects, inclu everal businesses in imarily due to delive mewhat disrupted b	ding effects that the proposed inter ry vehicles both to ut access will rema	may occurchange and from ain open to	ions for a business the properties of the construction of the cons	n. the trans ses. Du constru	portation iring cons ction. The	facility tructio e prop	v. These depointhese active osed actions	pendencies are vities may be
5)	Estimate the nu	nate the number of businesses and jobs that would be created or displaced because of the project.							
a)	Total number crea	ated	⊠ None						
Nu	umber created by ty	ype including nur	nber of jo	bs					
Ret	etail businesses cre	eated		Retail jobs created					
Ser	ervice businesses o	created		Service jobs created					
Wh	holesale businesse	es created		Wholesale jobs creat	ed				
Ma	anufacturing busin	esses created		Manufacturing jobs of	reated				
b)	Total number disp	placed 33		□ None					
	umber displaced by etail businesses dis		-	Retail jobs displaced	l	279			
Ser	ervice businesses o	displaced	5	Service jobs displace	ed	150			
Wh	holesale businesse	es displaced	0	Wholesale jobs displ	aced	0			
Ma	anufacturing busin	esses displaced	0	Manufacturing jobs d	displace	d	0		
6)	Identify any spe	cial characteristic	s of the o	created or displaced b	ousines	ses or the	eir em	ployees.	
	a) Number of cre	eated businesses	by speci	al characteristics:			⊠ N	lone	
	Number of creat	ed businesses th	at will em	nploy elderly serve elderly					
	N	umber of created	business	ses that will employ di se	isabled erve dis	abled			
	N	umber of created	business	ses that will employ lo		me peopl v-income		le	
	N	umber of created	business	ses that will employ a	minorit erve a n		tion		
	b) Number of dis	splaced business	es by spe	ecial characteristics:				lone	
	N	umber of displace	ed busine	esses that employ elde se	erly erve eld	erly		4 26	
	N	umber of displace	ed busine	esses that employ disa	abled erve dis	abled		3 27	
	N	umber of displace	ed busine	esses that employ low		e people v-income	peop	0 l e 25	
	N	umber of displace	ed busine	esses that employ min	nority po erve a m	•		5 29	
7)	Is Special Reloc	ation Assistance	Needed?	: 🛛 No					
	Yes - Describe sp			000 Fpy D=-114/- "	ala-f :		do-		
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8) Describe the business relocation potential in the community.

The business relocation potential in the community is excellent. There are a number of available sites within a short distance of the proposed action. Several of the business owners to be relocated have stated that they are looking forward to new sites. There is also great potential for new buildings to be constructed in the immediate area of the interchange after construction due to newly available land. New buildings will be required for the larger retail businesses in the area.

a) Total number of available business buildings in the community

There are 22 business buildings for sale and 29 business buildings for lease in the surrounding community.

b) Number of available and comparable business buildings by location

Number of available and comparable business buildings within 5 miles: 22 for sale, 29 for lease

c) Number of available and comparable business buildings by type and price (Include business buildings in price ranges comparable to those being dislocated, if any.)

Number of available and comparable single business buildings in the price range of \$0 - \$200,000: 6

Number of available and comparable single business buildings in the price range of \$200,000 - \$400,000: 10

Number of available and comparable single business buildings in the price range of \$400,000 - \$500,000: 1

Number of available and comparable multi- business buildings in the price range of \$300,000 - \$500,000: 2

Number of available and comparable multi-business buildings in the price range of \$500,000 - \$1,000,000+: 3

9) Identify all the sources of information used to obtain the data in item 8.

\[\times \text{ Multiple Listing Service (MLS)} \]

\[\times \text{ Newspaper listing(s)} \]

\[\times \text{ Other - Identify:} \]

10) Describe how relocation assistance will be provided in compliance with the WisDOT Relocation Manual or FHWA regulation 49 CFR Part 24.

Commercial project assurances: "Assist owners of displaces business concerns and farm operations in obtaining and becoming established in suitable business locations or replacement farms." (Sec. 32.25(2)(b) of the Wisconsin Statutes)

The Commercial Properties affected by this project will be assisted in their relocation in the following manner:

- a. Maintain listings of vacant commercial properties.
- b. Maintain close contact with local real estate agencies and brokers dealing in commercial space.
- c. Inform business concerns of the Small Business Administration entitlements when federal aid is involved.
- d. Contact local development corporations and other similar organizations to make all possible assistance available.
- e. Assist in securing and making moving arrangements.
- f. Joint development of inventory of personal property to be moved.
- g. Advise businesses in site management procedures and occupancy terms and conditions.
- h. Advise them of their relocation claim entitlements and assist them in filing the claim with full documentation.

Contact with each commercial displacee will be made at regular intervals during which various leads or referrals will be offered. Visitations will be geared to the complexity, the specific needs an the level of availability of replacement properties and will be repeated until the relocation agent's responsibilities are completely and fully discharged and are in compliance with the spirit and the intent of the program.

11) Identify any difficulties for relocating a business displaced by the proposed action and describe any special services needed to remedy identified unusual conditions.

The only difficulty that has been identified is finding a suitable site for one the larger retail businesses. It is desirable to relocate the businesses currently located within the Town of Stettin, within the Town of Stettin to maintain the town's tax base. This may be difficult.

- 12) Describe any additional measures which would be used to minimize adverse effects or provide benefits to those relocated, those remaining, or to community facilities affected.

 None.
- 13) Generally describe both the beneficial and adverse effects accruing to:
- a) The area's economic development potential or existing business area caused by the proposed action. Include any G:\SDATA\@Sai\051--100\089\100\Corridor_Tasks\Env_Doc\Env_Doc\Wrd\envirodoc\eafactorcomplete.doc

factors identified by business people that they feel are important or controversial.

There is potential for the Town of Stettin to lose some of its tax base if some of the businesses can not relocate within the town. Efforts are being made to relocate the businesses within the town.

The reconfiguration of the roadways within the interchange area will open up new areas available for economic development that were previously covered by roads. So, although some land is being acquired and some businesses relocated, there is potential for new development to replace the displacements.

b) The employment potential and existing employees in businesses affected by the proposal. Include, as appropriate, a discussion effects accruing to minority populations or low-income populations.

It is the intent at this time to relocate all the businesses being displaced within the surrounding area, thus allowing all employees to keep their jobs. In addition the new areas being made available for economic development will potentially create new employment opportunites.

Wisconsin Department of Transportation Environmental Justice Evaluation

Alternative: C (VP/VE 4R) Preferred? Yes		Portion of project this sheet is evaluating if different from the first Basic Sheet
Include the size of the population(s) a readily identifiable group of minority protected minorities) who live in geopersons (such as migrant workers or activity. Low-Income_Population mea at or below the U.S. Department of He	and their pert persons incl graphic prox Native Amer ans any readi ealth and Hur ally disperse	lation and/or low-income population affected by the proposed action. tinent demographic characteristics. [A minority population means any luding the elderly or disabled (see item 2 below for definitions of Title VI kimity, and if circumstances warrant, geographically dispersed/transient ricans) who will be similarly affected by a proposed program, policy, or ily identifiable group of low-income persons (having a household income man Services poverty guidelines) who live in geographic proximity, and, ed/transient persons (such as migrant workers or Native Americans) who m, policy, or activity.]
☐ No minority populations or low-ine (Process is complete if the No box is		ations are present in the areas influenced by the project
$oxed{\boxtimes}$ Yes, a minority population or low remaining items on this Factor Sheet		ulation is located in the areas influenced by the project. `(Complete the
The Town of Rib Mountain has a popula	ation of 7,556.	Of this population, 3.5% are minority and 9.7% are over the age of 65.
The Town of Stettin has a population of	2,191. Of this	s population, 3.2% are minority and 11.9% are over the age of 65.
The City of Wausau has a population of	38,426. Of th	his population, 14.1% are minority and 17.1% are over the age of 65.
There are no disproportionately high and the same as the non-minority population		ects on minority residents. Effects on the minority residential population will be
There are minority business owners with	n businesses I	located in the project area.
		inority population or low-income population affected by the proposed ir pertinent demographic characteristics. (Check all that apply.)
☐ Black (having origins in any of the ☐ Low income	e black racial	l groups of Africa) ☐ Disabled
☐ Hispanic (of Mexican, Puerto Rica	an, Cuban or	South American, or other Spanish culture or origin, regardless of race)
☐ Low income	☐ Elderly	☐ Disabled
or the Pacific Islands)		original peoples of the Far East, Southeast Asia, the Indian subcontinent
☐ Low income	∐ Elderly	∐ Disabled
 ✓ American Indian and Alaska Native cultural identification through tribal at Low income 		igins in any of the original people of North America and who maintains community recognition) Disabled
Non-minority population	⊠ Elderly	⊠ Disabled
, , , ,	•	cted by this project are owners and employees of the businesses being e of the overall number of owners and employees being affected. There are
3) Identify and describe issues of c	oncern or co	ontroversy to the minority population or low-income population.
$oxed{oxed}$ No issues of concern or controver	rsy identified	ı
☐ Issues of concern or controversy	identified bel	low- Describe issues and how they were resolved.

4) Identify and describe effect(s) to the minority population or low-income population.

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Indicate which other environmental factors are involved or inter-related . ☐ General Economics ☐ Community & Residential ☐ Economic Development & Business ☐ Agriculture ☐ Wetlands ☐ Streams & Floodplains ☐ Lakes & Other Open Water ☐ Upland ☐ Erosion Control ☐ Storm Water Management ☐ Air Quality ☐ Construction Stage Sound Quality Traffic Noise ☐ Section 4(f) & 6 (f) ☐ Historic Resources ☐ Archeological Resources ☐ Hazardous Substances and USTs ☐ Aesthetics ☐ Coastal Zone
5) Indicate whether effects to a minority population or a low-income population are beneficial or adverse
☐ Only beneficial effects will occur. Describe effects on affected population and discuss whether they are direct, indirect or cumulative, include a discussion of any measures to enhance beneficial effects.
☑ Identified adverse effects are proportionate to those experienced by the general population. Describe effects on affected population and discuss whether they are direct, indirect or cumulative, include a discussion of any measures to avoid, minimize, or mitigate adverse effects.
There are 2 identified minority business owners (out of 33 total businesses), who will have their businesses relocated as a result of the proposed action. There are also a small number of minority employees being displaced. The overall percentage of minority owners and employees within the project area is small. Although there will be inconvenience and disruption while relocating the business, the direct impacts due to the proposed action are not disproportionately high or adverse enough to abandon the proposed action. Mitigation will be in the form of relocating the business and payments to make the business whole.
☐ Identified effects are disproportionately high and adverse. A disproportionately high and adverse effect means an adverse effect that: 1) is predominately borne by a minority population and/or a low-income population; or 2) will be suffered by the minority population and/or low-income population and is appreciably more severe or greater in magnitude than the adverse effect that will be suffered by the non-minority population and/or non-low-income population.
Describe disproportionately high and adverse effects on affected population and discuss whether they are direct, indirect or cumulative, include a discussion of any measures to avoid, minimize, or mitigate disproportionately high and adverse effects or enhance beneficial effects.
5) Indicate whether the individuals in the affected population(s) are protected under Title VI of the 1964 Civil Rights Act. (See item 2 above for definitions of Title VI minorities.)
☐ No Title VI protections do not apply, but other requirements under the Age Discrimination Act or Americans With Disabilities Act do apply. Describe effects and how they will be avoided, minimized or mitigated.
Yes Title VI protections apply. Describe any special services, considerations, or mitigation that will be used to avoid, minimize, or mitigate effects to Title VI individuals. Minority business owners to be relocated will be treated equally to the non-minority business owners being relocated. Displaced minority employees will be treated equally as well.
6) Will the project/alternative be carried out even with disproportionately high and adverse effects on a minority population or low-income population.
N/A
☐ No the project/alternative will <u>not</u> be carried out in keeping with EO 12898
☐There is no substantial need for the project/alternative
☐ Another alternative with less severe effects on the minority population or low-income population can meet the needs of this and is practical.
☐ Yes, will be carried out with the mitigation of disproportionately high and adverse effects.
Yes, a substantial need for the project/alternative exists based on the overall public interest and alternatives that would have less adverse effects on minority populations or low-income populations have either:
$\hfill \square$ adverse social, economic, environmental, or human health impacts that are more severe ; or
☐ would involve increased costs of an extraordinary magnitude

7) Identify and discuss mitigation and enhancement efforts to address disproportionately high and adverse effects to Title VI protected minority people if different from those shown in item 5 above.

N/A

Wisconsin Department of Transportation WETLANDS IMPACT EVALUATION

Alternative: C VP/VE (4R)	Portion of project this sheet is evaluating if different from the first
Preferred? Yes	Basic Sheet. From Mallard Lane to Bridge Street

1) Describe proposed work in the wetland(s), e.g., excavation, fill, marsh disposal, other.

The work will be primarily excavation/fill as required to construct the new six-lane typical section. Reconstruction and widening beyond the existing R/W extends the project into various wetlands along the Big Rib River corridor. Excavation below subgrade (EBS) or over excavation of deep organic or wetland soils may be necessary pending geotechnical boring information. Wetlands soils not containing a purple, loosestrife seedbank in the project area will be salvaged and redeposited on side slopes or in wetland mitigation areas. Activity will also include isolated R/W wetland distrubance, drainage structures, cross culverts, stormwater basin construction, and utility installations in some areas.

2) Describe the location of wetland(s) affected by the proposal. Include wetland name(s), if available. (Use maps, sketches, or other graphic aids.)

The approximate mapped wetland boundaries are shown on a map in Exhibit 10. Approximately five main types of wetlands were identified in the project area North of Mallard Lane to West Bridge Street: Wet Meadow (M), Scrub-shrub (SS), Deep Marsh (DM), Aquatic Bed (AB), and Wooded Swamp (WS). Some wet meadow and wooded swamp areas of the Rib River Crossing could be considered riparian emergent (RPE) or riparian forested areas (RPF). Final determinations and mitigation related issues will be handled during design.

See Attached Wetland Fill Table Provided in Exhibit 10.

3) This wetland is:

All of the below listed associations are applicable. Approximately 16 wetland areas are small, flat drainage impeded, roadside ditches that occur in both hydric and non-hydric soil mapped areas. They are less than 1 acre in size an additional 4 wetlands are only between 1 and 2 acres in size. The majority of the impacts relate to wet meadow or R/W impacts and wooded swamp impacts to the Big Rib River floodplain.

⊠ Isolated from stream, lake or other water body (e.g., perched wetland).

Wetlands in the STH 29 West Area (Numbered 20-26 on the map in Exhibit 10) are isolated and bounded by STH 29 to the south, Stewart Avenue to the North, and 28th Avenue to the east. Wetlands in the West Bridge Street Area (Numbered 31-38 on the map in the Exhibit 10) are isolated and bounded by Bridge Street to the North, 17th Avenue to the east, and Wood Drive to the west. Wetland 30 is an isolated depression of cattails in the USH 51 on-ramp at STH 52.

Adjacent (within 5-year floodplain) to a stream thread.

Wetlands near USH 51 near Stewart Avenue North (Numbered 27-30 in Table 1in Exhibit 10) are adjacent to drainage channels flowing to the Big Rib River near the southeast quadrant of USH 51 and Sherman Street.

□ Contiguous (in contact) with a stream, lake, or other water body.

Wetlands North of Mallard Lane along USH 51 to the west and east (Numbered 18 and 19 in Table 1in Exhibit 10) are contiguous with the Big Rib River.

A portion of this drainage paralleling the east side of USH 51 follows a recently reconstructed drainage way that extends to a large box culvert under USH 51 near Wetland 29 at USH 51 and Sherman. It extends west to 27th Street and 27th Place. Thus, wetlands 27-30 are hydrologically connected to the Rib River wetlands (Also Number 18).

Identify corresponding stream, lake, or other water body by name or town-range location:

Drainage Channel/Urban Streamthread: NW 1/4 of Section 34 T29N, R7E, is an apparent navigable/Ch 30 drainage channel currently being evaluated for maintenance (sand clogged) by DNR and the City. The larger streamcourse is discussed above and in the Streams and Floodplains Section.

Big Rib River: T29N, R7E, Section 34 Floodplain

T28N, R7E, Section 3

NOTE: If wetland is contiguous or adjacent to a stream, complete Streams Factor Sheet.

If wetland is contiguous to a lake or other water body, complete Water bodies Factor Sheet.

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4) List any observed or expected waterfowl and wildlife inhabiting or dependent upon the wetland. (List should include both permanent and seasonal residents).

Species living, breeding, and foraging in the area include white tail deer, raccoons, opossum, turtles, skunks, rabbits, muskrats, other small mammals, wood turtles, frogs, numerous song birds, swallow, red tailed hawks, Canadian geese, and various puddle duck species (mallards, blue-winged teal, woodduck, and hooded merganzer). Other birds seasonally migrate through the area. Waterfowl also nest and raise young in the vicinity of the Big Rib River crossing with a high dependence on invertebrates in the backwater seasonal basins of the Rib River floodplain. Isolated wetlands in roadside ditches have less habitat value, especially when an environmental corridor does not exist.

5) Are there a	ny known	endangered	or threatened	species	affected by	the project?
No No	_	_		-	_	

The wood turtle (Clemmys insculpta), a state threatened species, has been surveyed in the study area. The redside dace is a state special concern species. No impacts to this species or the warm water sport fishery are expected according to DNR coordination. The DNR indicates impacts to these turtles can be avoided by placing silt fence along the project to prevent turtles from entering the construction area. As part of the mainline environmental evaluation the DNR recommended reviews/surveys for birds, amphibians, and freshwater mussel species. The need for these assessments will be determined as project planning continues. Impacts to affected species will be assessed and coordinated with resource agencies once they are determined.

DNR recommended reviews/surveys for birds, amphibians, and freshwater mussel species. The need for these assessments will be determined as project planning continues. Impacts to affected species will be assessed and coordinated with resource agencies once they are determined.	.ne
☐ Yes Identify the species and indicate whether it is on Federal or State lists.	
☐ Section 7 coordination has been completed with the U.S. Fish & Wildlife Service. Describe mitigation required to protect the federally listed endangered species.	
☑ Coordination with DNR has been and is on-going. Describe mitigation required to protect the State liste species. (See above).	d
6) FHWA Wetland Policy	
☐ Not Applicable - Explain	
oxtimes Individual Wetland Finding Required - Summarize why there are no practicable alternatives to the use of the wetla	ınd.
Given the orientation of the project and Big Rib River corridor, wetland impacts could not be reduced below the 7.4 limit for the alignment considered. Wetland avoidance and minimization procedures have been evaluated in concept design and will be evaluated further during preliminary design. The final wetland impacts of 11.24 acres of this revise EA are more than the 6.55 acres estimated in the May 2001 FONSI, but are based on field delineations, surveys, at evaluation of alignments. The other alternatives in the value planning/value engineering involved substantially more impacts to wetlands (>15 acres addition) and would have fragmented the Big Rib River floodplain corridor. Practical alternative analysis will be evaluated throughout the planning process.	otual sed nd
Statewide Wetland Finding NOTE: All must be checked for the Statewide Wetland Finding to apply.	
\square Project is either a bridge replacement or other reconstruction within 0.5 km (0.3 mile) of the existing location.	
☐ The project requires the use of 3 hectares (7.4 acres) or less of wetlands.	
☐ The project has been coordinated with the DNR and there have been no significant concerns expressed over the proposed use of the wetlands.	
7) Erosion control or storm water management measures that will be used to protect the wetland are shown on eithe both the Erosion Factor Sheet or the Stormwater Factor Sheet:	r or
☑ Yes ☐ No - Briefly Describe measures to be used	
A detailed Stormwater Management Plan is being developed for use by designers. Wetland and stormwater issues observed and will be addressed as illustrated in Exhibit 8 of the Stormwater and Erosion Control Section.	were
8) Section 404 Permit	
Applicable - Fill will be placed in wetlands. Indicate area of wetlands filled 11.42 Acres (5.19 Hectares)	
☐ Individual Section 404 Permit required G:\SDATA\@Sai\051100\089\100\Corridor_Tasks\Env_Doc\Env_Doc\Wrd\envirodoc\eafactorcomplete.doc	

		n (LOP) required to satisfy Section 404	
Indicate which GP or LOP required ☐ Non-Reporting GP		☐ Provisional GP	
☐ Provisional LOP		☐ Programmatic GP	
9) Section 10 Waters	For navigable wat required	ters of the United States (Section 10) ind N/A: Big Rib River is tributary to the Wisco same. Thus, it is preliminarily determined	onsin River but is not considered the
Indicate whether Preconstr		(PCN) to the U.S. Corps of Engineers(US nitted on (Date) N/A	SACE) is:
Status of PCN USACE has made	the following deter	rmination on (Date) N/A	
USACE is in the p	rocess of review, a	inticipated date of determination is:	(Date) N/A

10) Identify wetland type(s) that will be filled or converted to another use. Use the DOT Wetland Bank System. (See FDM Procedure 24-5-10, Figure 2.) If the National Wetlands Inventory (NWI) or Wisconsin Wetlands Inventory (WWI) are used to identify the types of wetlands, translate them to the DOT Wetland Bank System.

a) Approximate areas of wetlands filled or converted by type.

Wetland Type Wet meadow,	Area of Wetland Type	5.95 Acres	(2.41 Hectares)
Wetland Type Scrub-shrub	Area of Wetland Type	1.86 Acres	(0.75 Hectares)
Wetland Type AB/Deep Marsh	Area of Wetland Type	0.16 Acres	(0.06_Hectares)
Wetland Type Wooded Swamp/RPF	Area of Wetland Type	3.26 Acres	(1.32_ Hectares)

See explanation provided in Section 2 and Exhibit 10 for Wetland Impact Tracking form Information wetland type.

11) Wetland Mitigation

(NOTE: Avoidance, minimization, or mitigation is required.)

a) Wetland Avoidance

i) Describe methods used to avoid the use of wetlands, such as using a lower level of improvement or placing the roadway on new location, etc.

Traffic modeling and previous engineering determined that the addition of two lanes were required for the mainline cross-section. The roadway will therefore go from a 4-lane to a 6-lane facility. Roadway fill slopes will be minimized given the required cross-section. Wetland impact minimization was used during alignment consideration of the Value Engineering/Value Planning Process of Fall/Winter 2001-2002. Sselection of alternative 4R minimized additional impacts and fragmentation of the Big Rib River corridor by eliminating far west STH 29 interchange alignment.

ii) Indicate the total area of wetlands avoided

Alignment selection of 4R avoided 15 acres of wetlands that would have been impacted under Alternative 7.

b) Minimize the amount of wetlands affected

i) Describe methods used to minimize the use of wetlands, such as a steep up of side slopes or use of retaining walls, equalizer pipes, upland disposal of hydric soils, etc.

The wetland minimization techniques for the project will be addressed on a project by project basis for USH 51 Corridor.

Potential techinques are listed in the Wetland Documentation in Exhibit 10.

- A retaining wall and other minimization or enhancement techniques are under consideration for wetlands 17 and 18, where STH 29 West fly over ramp is planned.
- Similarly, a rustic steel guard rail could minimize fill slopes at the Big Rib River or along streamcourses.
- ii) Indicate the total area of wetlands saved through minimization 2-3 acres cumulative Acres 1-1.5 (Hectares)

(Pending)			
c) Compensation for	unavoidable los	s	
i) Is compe	nsation of unavo	idable wetland	d loss required?
⊠ Yes		□ No	
ii) Describe	efforts to replac	e unavoidable	wetland loss
Wetland Mit plan would i project. The	igation Plan. This integrate the const e plan will provide	will be shared valuetion requirent truction requirent habitat and wet	ter has been drafted for the WisDOT. See Exhibit 11 for a Conceptual with resource agencies once a formal plan is submitted to the district. The ments, borrow, stormwater, and wetland functional mitigation needs for the tland replacement while addressing purple loosestrife control requirements. need for the following:
:	Need for provid Need for mitiga	ding over 100 to ation of approxir	Million CYs of borrow for the north and south USH 51 project areas. b 200-acre-feet of stormwater floodplain storage. mately 12 acres (37 for total mainline and arterial area) of wetland mitigatio WisDOT ownership.
☐ Not App	olicable		
Note: If type and amo	ount of compens	ation is known	n, complete item d) on following page.
Conceptual	wetland mitigation	plan proposed	August 2002 to WisDOT. See Exhibit noted above.
d) Type and amount	of compensation	ı	
⊠ On-Site Replacen watershed. These re			ated in the general proximity of the project site within the same local ous to the project.
Wetland type of on-s	ite replacement		
(Pending) S	ee Pending Conce	eptual Wetland I	Mitigation Plan, Exhibit 11.
Total area of on-site	replacement	Acres	(Hectares)
	ed over the high	way alignment	nt opportunity for wetland compensation within a 8.05 kilometers (5 or a wetland replacement located away from the project site, generall
Also under	consideration. Se	e Exhibit 11.	
Wetland type of off-s	site replacement		
Total area of off-site	replacement	_ Acres	(_Hectares)
☐ No near or off-site	e replacement - D	escribe reaso	ns no near or off-site opportunities were found.
	estoration/creation		ensation site containing wetland credit areas and types from bank surplus areas from the wetland compensation projects of specific DO
	ite. This is becaus	se of items pres	nd USACE has indicated that every effort should be made to mitigate sented in the Wetland Compensation Plan Exhibit and item "c" mentioned concern of agencies.
Indicate name or loc	ation of wetland	mitigation ban	k site to be used for the replacement of unavoidable wetland loss.
Wetland type of bank	k-site replacemer	nt	

Total area of bank-site replacement _ Acres (_Hectares)

Describe decision process used to determine the use of the bank-site and provide any coordination documentation with regulatory or resource agencies.

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Pending, DNR has expressed interest in replacement of wetland habitat and floodplain storage because of general lack of wetlands in Wausau, with the exception of the big Rib River Corridor. The USACE has similarly expressed an interest in having the project address the loss of wetlands and floodplain storage.

Wisconsin Department of Transportation STREAMS AND FLOODPLAINS IMPACT EVALUATION

Alternative: C (VP/VE Preferred? ⊠ Yes		Basic Sheet	t this sheet is evaluating if different from the first e to West Bridge Street
1) Name of Stream Big Rib River			2) Location of Stream T28N-R7E Sec. 3 &
			T29N-R7E Sec. 34
3) Stream Type In	ndicate Stream Class if	Known	4) Size of upstream Watershed Area
☐ Unknown ☑ Warm water ☐ Trout-Class☐ Wild and Scenic River		ass	□ Permanent Flow (year-round) □ Temporary Flow (dry part of year)
5) Stream Characteris	tics		
a) Substrate 🛚 Sand	I ⊠ Silt ⊠ Clay 🗌	Cobbles	escribe:
Mixed to shallow water	waterbody with various b	ackwaters and ditches.	
b) Average Water Depth 3-5'		ent - If known describe	: High flow areas contain shifting sand, muck and the lily pads and submerged aquatics.
d) Identify Fish Species Present walleye, large and small mouth bass, northern pike, muskie, silver and shorthead redhorse, white sucker and forage species		e) If water quality data is available, include this information (e.g. DNR or local discharger might have such records). Surface waters resources of Marathon County is available. The Wisconsin River, a downstream receiver, is on the EPA 303d list as an impaired water. A mercury advisory for fish consumption has been issued. In general, water quality is average to below average because of commercial land use in area.	
6) Are there any known N		ned species affected b	y the project?
which near (Cler the clist. state fresh impa	n is on the Federally thre the Big Rib River. DNR mmys insculpta), can be onstruction area. The bl The Redside dace is a st. Other species on the swater mussels found in tots and that a mussel su	atened list. The eagle he coordination indicates in avoided by placing silt fack redhorse, found in late special concern special concern list include Big Rib River. The I rvey should be conduct narea. See previous a	een identified as a breeding group area for the bald eagle, has been delisted on the state level. No nests are known impacts to the state threatened species, the wood turtle ence along the project to prevent the turtles from entering take Wausau, is a fish on the state's endangered species excies. Both are on a common listing for this area of the detection of the black sandshell, fluted shell, and elktoe that are DNR states that proper erosion control will minimize fish end closer to construction to determine if mussels are and current DNR agency coordination and U.S. Fish and
Yes Identify the species and indicate whether it is on Federal or State lists. (Pending evaluations – Coordination)			
☐ Section 7 coordination has been completed with the U.S. Fish & Wildlife Service. Describe mitigation required to protect the federally listed endangered species.			
	☐ Coordination w State listed specie		npleted. Describe mitigation required to protect the
7) <u>If bridge replacement</u>	t, are migratory bird ne	sts present?	
☐ No ☑ Yes – Identify Bird Species present: Estimated number of nests is:			
Swallow nests	are present A confirmat	tory review/check is to h	e conducted closer to the construction date to determine

construction requirements.

8) Is a U.S. Fish & Wildlife Depredation Permit required to remove migratory bird nests? ☐ Not Applicable ☐ Yes ☒ No - Describe mitigative measures
Due to the presence of swallow nest underneath the structures at The Big Rib River, construction of the proposed action would take place outside the active nesting season (May 15 – August 20) and/or drop nets would be installed prior to May 15 to keep the birds away during construction. The replacement structures would likely be similar to the existing and the area would be expected to be recolonized.
9) Describe land adjacent to stream. If wetland, give type.
Land adjacent to the Big Rib River at the USH 51 crossing is primarily floodplain forest wetlands and backwater oxbows and swamps (WS/RPE). Wetlands along the slope or in previously disturbed R/W are generally meadow (M). Other habitats types beyond the toe of slope in the Rib River floodplain are forest and scrub/shrub types. On the north bank of the river, there are a few businesses and a residential area. Some residential areas are located in upland (non-floodplain) fingers of land.
10) Identify upstream or downstream dischargers or receivers (if any) within 0.8 kilometers (1/2 mile) of the project site.
The Big Rib River discharges into Lake Wausau. On the north bank of the Big Rib River, on the west side of USH 51, is a site that has been identified as a potential arsenic and solid waste debris site. A metal factification plant also has performed some environmental cleanup for contaminants west of 28 th Street/Sherman in an area of a stormwater outfall
11) Section 404 Permit
Applicable - Fill will be placed in wetlands. Indicate area of wetlands filled 11.42 Acres 5.19 (Hectares)
☑ Individual Section 404 Permit required
See Wetland Factor Sheet.
General Permit (GP) or Letter Of Permission (LOP) required to satisfy Section 404
Indicate which GP or LOP required ☐ Non-Reporting GP ☐ Provisional GP
☐ Provisional LOP ☐ Programmatic GP
12) Section 10 Waters For navigable waters of the United States (Section 10) indicate whether the U.S. Coast Guard has been notified? ☑No ☐ Yes - Describe results of Notification
Identify which Nationwide Section 404 Permit is required
Indicate whether Preconstruction Notification (PCN) to the U.S. Corps of Engineers(USACE) is: ☐ Required ☐ Submitted on (Date) NA
Status of PCN USACE has made the following determination on (Date) NA
USACE is in the process of review, anticipated date of determination is: (Date) ⊠ NA
13) Describe proposed work in, over, or adjacent to stream. Indicate whether the work is within the 100-year floodplain and whether it is a crossing or a longitudinal encroachment. (Note: U.S. Coast Guard must be notified when Section 10 waters are affected by a proposal)
The proposed action would replace the existing four-lane bridge with a similar, six-lane, multi-span structure at the Big Rib River.
This is a longitudinal crossing within the 100-year floodplain at 1168 MSL. Backwater effects are less than the 0.1 foot difference requiring additional mitigative actions.
14) Discuss the effects of any backwater which would be created by the proposed action. Indicate whether the proposed activities would be consistent with NR 116, the National Flood Insurance Program, and Governor's Executive Order #73.

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proposed structure. This is consistent with state and local floodplain zoning.

The existing backwater condition, per DNR/DOT cooperative agreements, would be improved or maintained by the

15) Describe and provide the results of coordination with any floodplain zoning authority.

FEMA floodplain maps were used in reference to the proposed project area and the project falls within 100-year and 500-year floodplains. Based on this information the project would incorporate design variations to avoid and minimize impacts to the surrounding environment.

16) Would the proposal or any changes in the design flood, or backwater cause any of the following impacts?:

No impacts would occur (Less than 0.1 foot change)	
☐ Significant interruption or termination of emergency vehicle service or a community's only evacu	ation route
☐ Significant flooding with a potential for property loss and a hazard to life	
Significant impacts on natural floodplain values such as flood storage, fish or wildlife habitat, op aesthetics, etc.	en space,

Not applicable to the project as it is a linear expansion of an existing roadway. However, mitigative precautions and plans will seek to minimize floodplain, habitat, and species specific impacts.

17) Discuss existing or planned floodplain use and briefly summarize the project's effects on that use.

The proposed action would not affect the longterm functions or use of the floodplain. Fill into wetlands and below the 100-YR floodplain would generally alter the habitat of the area.

18) Discuss probable direct impacts to water quality within the floodplain, both during and after construction. Include the probable effects on plants, animals, and fish inhabiting or dependent upon the stream.

The primary impacts to water quality during construction would be erosion runoff from exposed grades and slopes and siltation that will carry with it sand, gravel, and dirt. After construction, the primary concern would be run-off from the roadway after rain or snow-ice thaws. There would be little impact to plants, animals, and fish since the nature of the proposed project is nearly the same as the original. Salt-spray of traffic appears to influence the presence of tree and shrub species near the roadway. Salt tolerant species should be used in restoration or landscaping plans.

19) Describe proposed measures to minimize adverse effects or to enhance beneficial effects.

Erosion control measures implemented would conform to the contracts special provision and the standard specifications listed in WisDOT's Standards and Specifications for Road and Bridge Construction.

WisDOT, through TRANS 401 and the Cooperative Agreement, would comply with the substantive permit requirements of Chapter 283 Wis. Stats., Wisconsin Pollutant Discharge Elimination System.

Also, specific measures or recommendations are discussed in Factor Sheet O, Erosion control/Stormwater Management.

20) Erosion control or storm water management measures that will be used to protect the stream are shown on The Erosion Control Factor Sheet and the Stormwater Management Factor Sheet:

⊠ Yes	☐ No	Briefly Describe measures to be used such as sheet piling, cofferdam, turbidity
	barrier, k	parges, construction blackout window, etc.

See Wetland and Stormwater observations Exhibit 8 depicting the issues for the project. Also see the Erosion Control and Stormwater Factor Sheet.

Project designers are to address current and pending concerns and otherwise protect the aquatic environment as possible.

Wisconsin Department of Transportation STREAMS AND FLOODPLAINS IMPACT EVALUATION

Alternative: C (VP/VE 4R) Preferred? ⊠ Yes □ No	Basic Sheet	et this sheet is evaluating if different from the first e to West Bridge Street	
1) Name of Stream Intermittent Stream near Sherr	man Street,	2) Location of Stream T29N-R7E Sec. 34 Extending west to 27 th and 27 th and extending south to Metro Square before outfalling to Rib River corridor.	
3) Stream Type Indicate Stream Class if Kno	own	4) Size of upstream Watershed Area	
☐ Unknown ☐ Warm water ☐ Trout-Class☐ Wild and Scenic River		.75 mi ² ☐ Permanent Flow (year-round) ☑ Temporary Flow (dry part of year)	
5) Stream Characteristics			
a) Substrate 🛛 Sand 🗌 Silt 🔲 Clay 🔲 Col			
Much of Channel plugged with sand. City of Wausa	u working with DNR	on management option.	
b) Average Water Depth 0-12" c) Vegetation in Stream ⊠ Absent □ Present -	· If known describe	:	
		a is available, include this information (e.g. DNR night have such records). None.	
6) Are there any known endangered or threatened ⊠ No	species affected b	y the project?	
Marathon County has been identified as a breeding group area for the bald eagle, which is on the Federally threatened list. However, no nests are present near the Big Rib River. Impacts to the state threatened species, the wood turtle (Clemmys insculpta), can be avoided by placing silt fence along the project to prevent the turtles from entering the construction area. Test Identify the species and indicate whether it is on Federal or State lists. Section 7 coordination has been completed with the U.S. Fish & Wildlife Service. Describe mitigation required to protect the federally listed endangered species.			
☐ Coordination with State listed species.	DNR has been con	npleted. Describe mitigation required to protect the	
7) If bridge replacement, are migratory bird nests	present?		
☑ No☐ Yes – Identify Bird Species present:	Estimated r	number of nests is:	
8) Is a U.S. Fish & Wildlife Depredation Permit req Not Applicable Yes No - De	uired to remove m escribe mitigative n		
9) Describe land adjacent to stream. If wetland, gi Land adjacent to this stream is mainly deve combination of wetlands, forest, of the Rib I	eloped urban lands a	and parking lots. The lower reaches outfall to the	
10) Identify upstream or downstream dischargers	or receivers (if any	y) within 0.8 kilometers (1/2 mile) of the project site.	
This stream discharges into the Big Rib River approximately 1100 feet (335 m) to the south.			
11) Section 404 Permit Not Applicable - No fill to be placed in wetlands G:\SDATA\@Sai\051100\089\100\Corridor Tasks\Env Doc\Env Doc\Wrd\envirodoc\eafactorcomplete.doc			

	- Fill will be placed in wetlands. ate area of wetlands filled Acı	
	Section 404 Permit required	
Indica	rmit (GP) or Letter Of Permission ate which GP or LOP required on-Reporting GP	n (LOP) required to satisfy Section 404
_	rovisional LOP	☐ Programmatic GP
12) Section 10	Waters	
For navigable v		ction 10) indicate whether the U.S. Coast Guard has been notified? f Notification NA- coordination ongoing.
Identify which	NationwideSection 404 Permit is	s required
_		(PCN) to the U.S. Corps of Engineers(USACE) is: nitted on (Date) NA
Status of PCN USAC	CE has made the following deter	rmination on (Date) NA
USAC	CE is in the process of review, a	nticipated date of determination is: (Date) NA
and whether it		ent to stream. Indicate whether the work is within the 100-year floodplain encroachment. (Note: U.S. Coast Guard must be notified when Section 10
prefer		n Sherman Street. This area of Sherman Street would be reconstructed under the on, the crossing structure would remain similar to the current corrugated metal loodplain.
		would be created by the proposed action. Indicate whether the proposed e National Flood Insurance Program, and Governor's Executive Order #73.
	existing backwater condition would and local floodplain zoning.	be improved or maintained by the proposed structure. This is consistent with
15) Describe ar	nd provide the results of coordi	nation with any floodplain zoning authority.
this in		County Planning and Zoning Departments on floodplain identification. Based on imizing impacts was to remain within the existing roadway right-of-way as much ments in the floodplain.
16) Would the p	proposal or any changes in the	design flood, or backwater cause any of the following impacts?:
⊠ No	impacts would occur	
☐ Si	gnificant interruption or termina	ation of emergency vehicle service or a community's only evacuation route
□ s	ignificant flooding with a potent	tial for property loss and a hazard to life
	gnificant impacts on natural flo	odplain values such as flood storage, fish or wildlife habitat, open space,
17) Discuss ex	isting or planned floodplain use	e and briefly summarize the project's effects on that use.
No pe facility	•	this proposed action. Disturbance would only occur due to reconstruction of the
18) Discuss pro	obable direct impacts to water of	quality within the floodplain, both during and after construction. Include the

probable effects on plants, animals, and fish inhabiting or dependent upon the stream.

The primary impacts to water quality during construction would be erosion runoff from exposed grades and slopes and siltation that will carry with it sand, gravel, and dirt. After construction, the primary concern would be run-off from the roadway after rain or snow-ice thaws. There would be little additional impact to plants, animals, and fish since the nature of the proposed project is nearly the same as the original.

19) Describe proposed measures to minimize adverse effects or to enhance beneficial effects.

Erosion control measures implemented would conform to the contracts special provision and the standard specifications listed in WisDOT's Standards and Specifications for Road and Bridge Construction.

WisDOT, through TRANS 401 and the Cooperative Agreement, would comply with the substantive permit requirements of Chapter 283 Wis. Stats., Wisconsin Pollutant Discharge Elimination System.

Specific measures are discussed in Factor Sheet O, Erosion control/Stormwater Management.			
20) Erosion control or storm water management measures that will be used to protect the stream are shown on The Erosion Control Factor Sheet and the Stormwater Management Factor Sheet:			
⊠ Yes	☐ No Briefly Describe measures to be used such as sheet piling, cofferdam, turbidity barrier, barges, construction blackout window, etc.		

Wisconsin Department of Transportation UPLAND HABITAT IMPACT EVALUATION

Alternative: C (VP/VE 4R) Preferred? ⊠ Yes □ No	Portion of project this sheet is evaluating if different from the first Basic Sheet

1) Give a brief description of the upland habitat area. Include prominent plant community(ies) at the project site (list vegetation with an estimate of each community type if more than one present).

The upland habitat area affected by the proposed project is mostly managed right-of-way area. This includes areas of roadway slopes, medians and previously acquired idle lands for interchanges. The project will be constructed within an urban/suburban area that has been previously disturbed by development. Most of the vegetation in these areas is composed of agronomic species and non-native species, such as bluegrass, fescue, and reed canary.

2) Identify and describe any observed or expected wildlife associations with the plant community(ies.)

Typical wildlife associations that utilize the upland habitat community include those of most terrestrial and aquatic species in a developed environment. Small mammals, nesting birds, invertebrates, reptiles and amphibians that require upland habitat for foraging, breeding, and cover are expected to exist in the project area. Road crossing mortality and other issues are expected for such species in an urban setting and a roadway intersecting a natural environmental corridor, such as the Big Rib River.

3) Identify the dominant plant community(ies) and estimate existing and proposed area of each dominant plant community to be altered.

<u>Uplands</u>	Existing Area	Expected Alterations
Mowed and Managed R/W	50%	Interchange areas will be converted to roadway. Some uplands will be disturbed for borrow.
Woodland Edge	20%	Clearing and grubbing will convert types.
Commercial and Residential developments	30%	Numerous relocations.

4) Are there any known endangered or threatened species affected by the project?

Marathon County has been identified as a breeding group area for the bald eagle, which is on the Federally threatened list. However, no nests are present near the Big Rib River. Impacts to the state threatened species, the wood turtle (Clemmys insculpta), can be avoided by placing silt fence along the project to prevent the turtles from entering the construction area. As part of the mainline environmental evaluation in the May 2001 FONSI, the DNR recommended reviews/surveys for birds, amphibians, and freshwater mussel species. The need for these assessments will be determined as project planning continues. See DNR agency coordination in Exhibit 7. Affected species and issues will be addressed once they are determined.

. 000	, a.o doteod.
☐ Yes	Identify the species and indicate whether it is on Federal or State lists.
	☐ Section 7 coordination has been completed with the U.S. Fish & Wildlife Service. Describe mitigation required to protect the federally listed endangered species.
	☐ Coordination with DNR has been completed. Describe mitigation required to protect the State listed species.

5) Describe the nature of proposed work in the upland habitat area (e.g., grading, clearing, grubbing, etc.).

The work would be primarily excavation/fill as required to construct the new typical section. Reconstruction and widening roadways will extend into existing upland right-of-way. Shrub and forest areas will be cleared and grubbed in project fill areas. Activity will also include installation/replacement of drainage structures, utilities, and bike path construction.

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6) Identify and describe any known wildlife or waterfowl use areas or movement corridors that would be severed or eliminated by the proposed action. Include a discussion of the proposed action's effects upon the areas or corridors.

There is no obvious movement or use corridor other than current Big Rib River corridor and USH 51 roadway which serves as a barrier to upland and lowland animal movement. No areas would be eliminated by the project. If any areas are identified during subsequent environmental surveys, such areas would be avoided or protected during nesting/migration to minimize impacts.

Special temporary or permanent protective or directional barriers may be considered to minimize animal mortality at the Big Rib River. The DNR states that silt fence can be erected prior to May 1 to discourage turtles from entering the work area. A similar long-term approach to minimizing roadway mortality of turtles, reptiles, amphibians, and small mammals would be installing a sheet-metal barrier at the bottom of a rustic guardrail fence. The barrier could re-direct the species to a "critter pass" or road cross drain to reduce mortality.

7) Discuss other direct impacts on wildlife and estimate significance.

Mostly only developed land and mowed right-of-way will be affected by construction. If any habitat is disturbed, only edges or fringes of habitat will be affected. Few small mammals, nesting birds, invertebrates, and reptiles will be displaced.

8) Identify and discuss any probable secondary impacts that may be expected due to the project.

Special precautions will be taken when working in areas of purple loose strife and spotted knapweed to minimize the spread of these weeds.

9) Describe measures to minimize adverse effects or enhance beneficial effects.

The following options will be considered to address upland or lowland impacts:

- Cleaning of construction equipment.
- Adherence to provisions of on site disturbance techniques.
- Utilization of native species in the restoration mixes.
- Offsite disposal of exotic species vegetation from clearing and grubbing operations.

Wisconsin Department of Transportation

Erosion Control

	Iternative: C (VP/VE 4R) referred? Yes		rtion of project this sheet sic Sheet	is evaluating if different from the first
1. 2.	Give a brief description of existing the project. Include both existing			, both perpendicular and longitudinal to lope.
		to 5% . the propose	ed side slopes would range t	xisting profile contains vertical curves from 6:1 to a maximum of 3:1 while the
2. deg	Indicate all natural resources in radation.	the project vicini	ty that are sensitive to ero	sion, sedimentation, or water quality
		es exist in the pro	ject area.	
	⊠ River/stream		☐ Lake	☐ Endangered species habitat
	Other - Describe	Rib River Corridor	and associated upland and	lowland habitats.
	☐ No - There are no sens	itive resources aff	ected by the proposal.	
3.	Identify each sensitive resource	affected and prov	ride specific recommendat	tions on the level of protection needed.
	Construction relate construction area n			ve measures should be implemented at the
			are identified as a sensitive the proposed action. See f	e resource. There are 4 types of wetlands and actor sheets.
4.	Indicate all circumstances requi	ring additional or	special consideration.	
	a) 🛛 Yes - Additional or spec	cial circumstances	exist. Indicate all that are	e present.
	☐ Areas of groundwater dis	charge ⊠Area	s of groundwater recharge	e 🛛 Overland flow/runoff
	☐ Long or steep cut or fill	slopes. 🛚 🖾 Otho		ded swamp and other areas may provide for ndwater recharge.
	Vegetated swales and wet detention	on basins will be de	signed to infiltrate and treat	runoff to the maximum extent practicable.
	b)	ue or atypical eros	sion control measures to b	pe used to manage additional or
	c) No - Additional or specia	al circumstances a	are <u>not</u> present	
5.	Have erosion control measures	received consens	us from:	
	DNR County	Land Conservatio	n Committee	Native American Tribe

See DNR Coordination letter in Exhibit 7.

All Erosion Control measures identified in the Erosion Control Plan shall be coordinated through the DNR liaison process and TRANS 401 except when Tribal lands of Native Americans are involved. DNR does not issue concurrence without Erosion Control plans. In addition, TRANS 401 requires the contractor prepare an Erosion Control Implementation Plan (ECIP), which identifies timing and staging of the project's erosion control measures. On Tribal lands, coordination for 402 (erosion) concerns are either to be coordinated with the tribe affected or with the U.S. Environmental Protection Agency (EPA). EPA or the Tribes have the 401 water quality responsibility on Trust lands., describe how the Erosion Control /Storm water Management plan will be coordinated with Native American Tribes.

6. Describe overall Erosion Control strategy to minimize adverse effects and/or enhance beneficial effects.

Standard WisDOT erosion control methods would be used during construction as per WisDOT Standard Specifications for highway and structure construction. Temporary and permanent erosion control methods would include minimizing the amount of land exposed at one-time (staged construction), erosion bales, temporary seeding, silt fencing, erosion mats, rip-rap (river and channel banks), separating construction from live water, seeding and mulching, sediment traps, dust abatement, ditch or slop sodding, grass-lined conveyance (parallel to flow), distancing outfalls from waterway edge, vegetated filter strips (perpendicular to flow, and detention/retention basins. The area near the Mobil Station NW of I-39 and CTH NN has been proposed as previous stormwater detention basin. It and grass median strips could be constructed to serve as infiltration areas and sediment traps to minimize the effects to the Big Rib River.

Construction site erosion and sediment control would be part of the project's design and construction as set forth in TRANS 401 Wis. Adm. Code and the WisDOT/WisDNR Cooperative Agreement. An Erosion Control Implementation Plan (ECIP) would be prepared for approval by WisDNR prior to construction.

7.	Identify the temporary and permanent erosion control meas	ures to be utilized on the project.
	igtimes Minimize the amount of land exposed at one time	$oxed{\boxtimes}$ Seeding and mulching of exposed soils
	⊠ Erosion bales	□ Detention basin
	□ Temporary seeding	⊠ Sediment trap
	⊠ Silt fence	☑ Pave haul roads
	☑ Ditch checks	☐ Dust abatement
		☐ Turf reinforcement mat
	Ditch or slope sodding	⊠ Rip Rap
	☐ Soil Stabilizer	☐ In-Stream Sediment Trap (as possible)
	☑ Inlet Protection	
	oxtimes Separating construction from live water - Describe I	nethod: Turbidity barriers would be used to separate debris from main channel/current of river during structure installations.
		3 - Wetland and Stormwater Observations, should be reviewed during stormwater planning and erosion control planment.

Wisconsin Department of Transportation

Storm Water Management

	ternative eferred?			Portion o Basic Sh		this sheet	is evaluating if diffe	rent from the first
Sur	rounding	land	use and a discussion of	adopted plans are	describe	ed on Basic	Sheet 4	
١.	Indicate	whet	ther any natural resource	es exist in the proje	ct vicinit	y that are s	sensitive to water qu	iality degradation.
	\boxtimes	Yes	- Sensitive resources exi	st in the project ar	ea.			
			⊠ River/stream	Wetland		Lake	⊠ Endangered	d species habitat
			Other - Describe	Rib River Corr	idor and a	essociated u	upland and lowland ha	abitats.
		No -	There are no sensitive r	esources affected	by the pr	oposal.		
<u>2</u> .	Identify	each	sensitive resource affec	ted and provide sp	ecific re	commenda	ntions on the level of	f protection needed.
			Construction related and construction area near th				ve measures should b	pe implemented at the
			The Big Rib River and its various uplands that will				e resource. There are	4 types of wetlands and
3.	Indicate	whet	ther circumstances exist	in the project vicir	nity requi	ring addition	onal or special cons	ideration.
	a)	\boxtimes	Yes - Additional or spec	ial circumstances e	exist. Ind	licate all th	at are present.	
			☐ Areas of groundwate	er discharge	\boxtimes A	Areas of gro	oundwater recharge	
			⊠ Overland flow/runof	f		Long or st	eep cut or fill slope	s.
			☐ Cold water stream		⊠lı	mpaired wa	aterway	
			☐ Exceptional/outstan	ding resource wate	ers 🗌	Other - Des	scribe	
			Vooded swamps/floodplain tural environmental corrido		ds, and ri	ver oxbows	in the area provide for	or groundwater recharge
	-		ed swales and wet detention ble in areas not requiring h		-			ximum extent
	b)		scribe any unique, innova litional or special circum		orm Wate	er Manager	ment measures to be	e used to manage
		•	al consideration areas ider ter Observations.	ntified other than the	Big Rib F	River and er	nvirons. See Exhibit 8	for Wetland and
	c)		No - Additional or specia	l circumstances ar	e <u>not</u> pre	esent		
Į.	Indicate	whet	ther any Drainage Distric	t may be affected b	y the pro	ject.		
		Yes	- Identify the affected dra	inage district				
			Initial coordination with	drainage board h	as been d	ompleted	Discu	iss results
			Initial coordination with	DATCP has been	complete	i d	Discu	iss results
	\boxtimes	No -	There will be no effects	to a recognized dra	inage dis	strict.		

5. Indicate whether the project is within DOT's storm water management area. (NOTE: See Procedure 20-30-1, Figure 1, Attachment A4 the Cooperative Agreement between the Wisconsin Departments of Transportation and Natural Resources. Contact BoE's Storm Water Engineer or the District Environmental Coordinator for more details on the

	following areas.)	
	Yes - The project affects one of the following regula the DNR.	ted by a WPDES storm water discharge permit issued by
	☐ A DOT storm sewer system located within	Phase One Municipalities (cities over 100,000 population
	☐ A DOT storm sewer system located within	the five (5) Great Lakes Areas of Concern.
	☐ A DOT storm sewer system located within where non-point source priority watershed pro	Municipalities having populations of 50,000 or more ojects are being implemented. (CONFIRM)
	☐ A DOT storm sewer system designated pur	suant to NR 216.02 (4) Wis. Admin. Code.
	☑ No - The project is outside of WisDOT's storm water	r management area
6.	Describe the overall storm water management strategy to m	inimize adverse effects and enhance beneficial effects.
	control will be incorporated into the stormwater managemer swales and wet detention where possible (generally the Big treatment prior to discharge to the surrounding waters or we drain overland to minimize impacts to the receiving waterwa	Rib River and flatter project areas) to provide runoff etlands. Whenever possible, the wet detention basins will
		tion basin has been recommended NW of USH51 and CTH
	See Exhibit 8 - Wetland ar	nd Stormwater Observations
7.	Indicate how the storm water management plan will be com	patible with the storm water strategy .
8.	design to reduce or minimize runoff impacts to surrounding municipalities in ongoing. Furthermore, the stormwater man	
8.	Identify the storm water management measures to be utilize	d on the project.
	$oxed{oxed}$ Grass-lined conveyance (parallel to flow)	☐ In-line storm sewer treatment - Describe
	☐ Vegetated filter strips (perpendicular to flow)	□ Catch basins
	oxtimes Distancing outfalls from waterway edge	□ Detention / retention basins
	□ Constructed storm water wetlands See proposed multi-faceted, wetland mitigation plan	☐ Infiltration basin / trench

conditions, , limitations, and final stormwater recommendations,

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☑ Other - Describe Vegetated swales and wet detention a basin will be designed to infiltrate and treat runoff to the maximum extent practicable. Other recommendations may also be made according to existing

9.	Are there any property acquisitions for storm water management purposes?
	☐ No - There are no property acquisitions acquired for Storm Water Management purposes.
	☑ Yes - Complete the following: Pending, per final Stormwater Management Plan Recommendations.
	\square Safety measures are <u>not</u> needed for potential conflicts with existing and expected surrounding land use.
	☐ Safety measures are needed for potential conflicts with existing and expected surrounding land use.
	Describe proposed safety measures

Wisconsin Department of Transportation

AIR QUALITY IMPACT EVALUATION

Alternative: C (VP/VE 4R) Preferred? Yes	Portion of project this sheet is evaluating if different from the first Basic Sheet						
Carbon Monoxide 1) Is this project exempt from air quality analysis u	under Wisconsin Administrative Code - NR 411?						
☐ No - NR 411 exemptions do not apply ☑ Yes - NR 411 exemption(s) apply - Identify exem	nption(s) and explain why project is exempt.						
Wisconsin Administrative Code because the projected	be project is located in Marathon County, which is considered a metropolitan county. This project is exempt from NR 411of the isconsin Administrative Code because the projected traffic volume increase during the peak hour ten years after construction is st than 1200 vehicles (NR 411.04(2)(b)(2)). It is also exempt because of the distance to the nearest receptor (NR 411.04 (b)(5.b)).						
2) An air quality analysis was required.							
⊠ No							
☐ Yes - Identify the air quality modeling technique Worksheet to this Factor Sheet to illustrate results	e or program used to perform the analysis. (Attach Carbon Monoxide i.)						
3) If an air quality analysis was performed, will a C may proceed?	onstruction Permit be required to address air quality before the project						
⊠ No							
☐ Letter of concurrence from DNR Bureau of Air I	Management requested. (See attached request letter - Exhibit						
Letter of concurrence received from DNR Burea	au of Air Management. (See attached Exhibit						
☐ Yes - Indicate:							
(DATE) Date permit requested							
OR							
(DATE) Date of Permit							
Ozone 4) Is the project located in a county that is designated	sted non-attainment or maintenance for ozone?						
⊠ No							
☐ Yes - If yes one of the following boxes must be	checked.						
IMPROVEMENT PROGRAM [TIP]) endors	TRANSPORTATION PLAN) and in the (NAME TRANSPORTATION ed by the (NAME OF MPO), the region's Metropolitan Planning orm by the FHWA and FTA (Date). The project is included in the TIP as						
	etropolitan Planning Organization's boundaries and has received a e rural conformity section of the WisDOT/WDNR Memorandum Of onformity.						
☐ This project is exempt per 40 CFR 93.	134.						
Other, describe.							

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Wisconsin Department of Transportation CONSTRUCTION STAGE SOUND QUALITY IMPACT EVALUATION

Alternative: C (VP/VE 4R) Preferred? Yes	Length of Center line and termini this sheet is evaluating (if different from Sheet 1
	Sherman Street to West Bridge Street

1) Identify and describe residences, schools, libraries, or other noise sensitive areas near the proposed action and which will be in use during construction of the proposed action. Include the number of persons potentially affected.

Construction will take place in a mixed residential and commercial area. Potentially up to 300 people may be affected by noise during construction. This is based on 64 residences being adjacent to the construction area.

2) Describe the types of construction equipment to be used on the project. Discuss the expected severity of noise levels including the frequency and duration of any anticipated high noise levels.

The noise generated by construction equipment will vary greatly, depending on equipment type/model/make, duration of operation and specific type of work effort. However, typical noise levels may occur in the 67 to 107 dBA range at a distance of 50 feet.

[NOTE TO AUTHOR – If a copy of the "CONSTRUCTION EQUIPMENT SOUND LEVEL figure is not available from the District Environmental Coordinator, a copy may be obtained form the BoE Noise Quality Engineer.]

3) Describe the construction stage noise abatement measures to minimize identified adverse noise effects.

To reduce the potential impact of construction noise, the special provisions for this project will require that motorized equipment shall be operated in compliance with all applicable local, state, and federal laws and regulations relating to noise levels permissible within and adjacent to the project construction site. At a minimum, the special provisions will require that motorized construction equipment shall not be operated between 7 PM and 6 AM without the prior written approval of the project engineer. All motorized construction equipment will be required to have mufflers constructed in accordance with the equipment manufacturer's specifications or a system of equivalent noise reducing capacity. It will also be required that mufflers and exhaust systems be maintained in good working condition, free from leaks and holes.]

Wisconsin Department of Transportation TRAFFIC NOISE IMPACT EVALUATION

Alternative: C (VP/VE 4R) Preferred? Yes	Length of Center line and termini this sheet is evaluating (if different						
Fieleneu: 165	from Sheet 1) Sherman Street to West Bridge Street						
Need for Noise Analysis 1) Based upon a consideration of the traffic, roadw there be an increased traffic sound level as a resul	ray, terrain, and receiver characteristics affecting sound levels, could t of this action?						
☐ No - Complete only the Construction Noise Fact	tor Sheet.						
	Sheet and the rest this Factor Sheet.						
Traffic Data. 2) Indicate whether traffic volumes for sound predi 5.	ction are different from the Design Hourly Volume (DHV) on Basic Shee						
⊠ No							
☐ Yes - Indicate volumes and explain why they we	ere used.						
Automobiles _ Veh/hr							
Trucks Veh/hr							
Or percentage (T) <u>%</u>							
attached receptor location map as Exhibit 12.) The existing conditions and future conditions were modern as the conditions were modern.	ue or program used to identify existing and future sound levels. (See deled using the computer-modeling program, Stamina 2.0. Roadway as near residences were obtained from USGS mapping.						
4) Identify sensitive receptors, e.g., schools, librari attached receptor location maps in Exhibit 12.) All receptors are single family residences or businesses	es, hospitals, residences, etc. potentially affected by traffic noise. (See						
5) If this proposal is implemented, will future sound	d levels produce a noise impact?						
□ No							
⊠ Yes the impact will occur because:							
☑ The Noise Abatement Criteria (NAC) is approach	hed (1 dBA less than the NAC) or exceeded.						
Existing sound levels by 15 dBA or more.							
6) Will traffic noise abatement measures be implen							
	ccur.						
	or feasible (explain why). In areas currently undeveloped, local units of evels for land use planning purposes. (<u>A COPY OF THIS WRITTEN COCUMENT</u> .)						
One eighteen-foot barrier wall was modeled using Star project because the cost for construction exceeds \$30,	mina 2.0. Constructing barriers for noise abatement is not feasible for this ,000 per residence (TRANS 405.04 (2)(d)).						
and 41 on the exhibits. Approximately seventeen impa							
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			SOUND LEVEL LEQ (dBA)				Impact E	valuation			
Location or Site Identi-		Number of Families of People Typical of this Receptor Site * (c)	Noise Abatement Criteria (NAC) (d)	Future Noise Level (e)	Future Noise Level w/ Barrier Walls (e2)	Existing Noise Level (f)	Difference in Future and Existing Noise Levels (Col. e minus Col. f) (g)	Difference in Future and Existing Abatement Criteria (Col e minus Col. d) (h)	Impact or No Impact (I) or (*)	Difference in Future Noise and Future Noise with Barriers (Col. e minus Col. e2)	
								,	*		
1	550	One	67.0	54.2		53.5	0.7	-12.8	*		
2	270	One	67.0	56.8		55.9	0.9	-10.2	*		
3	150	One	67.0	58.7		57.3	1.4	-8.3	*		
4	130	One	67.0	59.6		58.0	1.6	-7.4	*		
5	150	One	67.0	62.0		62.1	-0.1	-5.0	*		
6	210	One	67.0	59.4		60.0	-0.6	-7.6	*		
7	230	One	67.0	58.6		60.0	-1.4	-8.4	*		
8	750	One	67.0	53.1		52.7	0.4	-13.9	*		
9	540	One	67.0	54.8		54.5	0.3	-12.2	*		
10	430	One	67.0	56.5		56.9	-0.4	-10.5	*		
11	190	One	67.0	58.6		60.0	-1.4	-8.4	*		
12	470	One	67.0	55.2		54.2	1.0	-11.8	*		
13	360	One	67.0	57.2		55.9	1.3	-9.8	*		
14	670	One	67.0	61.6		59.7	1.9	-5.4	*		
15	630	One	67.0	61.9		60.1	1.8	-5.1	*		
16	500	One	67.0	63.3		62.0	1.3	-3.7	*		
17	60	One	67.0	65.0		65.9	-0.9	-2.0	*		
18	720	One	67.0	61.2		59.7	1.5	-5.8	*		
19	850	One	67.0	60.0		58.2	1.8	-7.0	*		
20	160	One	67.0	62.0		62.1	-0.1	-5.0	*		
21	950	One	67.0	59.4		57.9	1.5	-7.6	*		
22	1030	One	67.0	58.6		56.8	1.8	-8.4	*		
23	1050	One	67.0	58.9		57.6	1.3	-8.1	*		
24	200	One	67.0	64.7		62.7	2.0	-2.3	*		
25	170	One	67.0	64.8		61.9	2.9	-2.2	*		
26	140	One	67.0	66.5	60.3	63.3	3.2	-0.5	I	6.2	
27	270	One	67.0	64.2		61.1	3.1	-2.8	*		
28	260	One	67.0	64.2		61.9	2.3	-2.8	*		
29	270	One	67.0	64.0		61.9	2.1	-3.0	*		
30	430	One	67.0	61.4		59.1	2.3	-5.6	*		
31	470	One	67.0	61.2		58.7	2.5	-5.8	*		
32	480	One	67.0	61.4		58.6	2.8	-5.6	*		
33	450	One	67.0	61.6		58.7	2.9	-5.4	*		
34	480	One	67.0	61.1		58.3	2.8	-5.9	*		
35	110	One	67.0	68.2	58.6	65.9	2.3	1.2		9.6	
36	120	One	67.0	67.5	61.2	66.0	1.5	0.5	1	6.3	
37	660	One	67.0	59.5		56.8	2.7	-7.5	*		
38	840	One	67.0	58.0		55.3	2.7	-9.0	*		
39	280	One	67.0	63.5		61.5	2.0	-3.5	*		
40	270	One	67.0	63.6		61.8	1.8	-3.4	*		
41	150	One	67.0	67.6	62.3	66.7	0.9	0.6	!	5.3	
42	130	One	67.0	67.7	60.9	66.6	1.1	0.7	!	6.8	
43	130	One	67.0	67.5	58.3	66.2	1.3	0.5	<u>!</u>	9.2	
44	120	One	67.0	67.3	58.4	65.9	1.4	0.3	<u> </u>	8.9	
45	120	One	67.0	67.8	59.8	66.0	1.8	0.8	- !	8.0	
46	150	One	67.0	66.1	57.2	62.9	3.2	-0.9	*	8.9	
47	160	One	67.0	65.6	56.6	62.5	3.1	-1.4	*	9.0	
48	80	One	67.0	65.8		65.9	-0.1	-1.2			

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·											
49	70	One	67.0	63.9		65.1	-1.2	-3.1	*		
50	200	One	67.0	61.2		61.5	-0.3	-5.8	*		
			SOUND	LEVEL LEQ	(dBA)		Impact E	Impact Evaluation			
Location or Site Identi- fication (See attached Map) (a)	from C/L of Near Lane To Receptor in feet (b)	Receptor Site * (c)	Noise Abatement Criteria (NAC) (d)	Future Noise Level (e)	Future Noise Level w/ Barrier Walls (e2)	Existing Noise Level (f)	Difference in Future and Existing Noise Levels (Col. e minus Col. f) (g)	d) (h)	Impact or No Impact (I) or (*)	Difference in Future Noise and Future Noise with Barriers (Col. e minus Col. e2)	
51	165	One	67.0	64.2		63.6	0.6	-2.8	*		
52	210	One	67.0	63.0		62.5	0.5	-4.0	*		
53	170	One	67.0	60.4		60.1	0.3	-6.6	*		
54	50	One	67.0	65.6		65.9	-0.3	-1.4	*		
55	50	One	67.0	64.8		66.2	-1.4	-2.2	*		
56	55	One	67.0	62.1		64.2	-2.1	-4.9	*		
57	60	One	67.0	62.3		65.1	-2.8	-4.7	*		
58	70	Business	72.0	62.9		65.0	-2.1	-9.1	*		
59	310	Business	72.0	61.9		62.0	-0.1	-10.1	*		
60	55	Business	72.0	66.5		65.1	1.4	-5.5	*		
61	60	Business	72.0	65.2		66.2	-1.0	-6.8	*		
62	50	Business	72.0	65.5		64.4	1.1	-6.5	*		
63	110	Business	72.0	63.1		62.0	1.1	-8.9	*		
64	145	Business	72.0	68.7		65.8	2.9	-3.3	*		
65	250	Business	72.0	56.6		54.9	1.7	-15.4	*		
66	160	Business	72.0	58.9		57.4	1.5	-13.1	*		
67	160	Business	72.0	62.1		60.6	1.5	-9.9	*		
68	100	Business	72.0	72.2		68.5	3.7	0.2	ı		
69	215	Business	72.0	66.1		65.3	0.8	-5.9	*		
70	70	Business	72.0	66.2		66.2	0.0	-5.8	*		
71	130	Business	72.0	66.5		64.6	1.9	-5.5	*		
72	175	Business	72.0	66.4		62.7	3.7	-5.6	*		

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HAZARDOUS SUBSTANCES OR UNDERGROUND STORAGE TANKS (UST's)

REV 11-21-96

Alternative: C (VP/VE 4R)
Preferred? Yes

Portion of project this sheet is evaluating if different from the first Basic Sheet

1) Briefly describe the results of the initial project review on the parcels affected by this project.

A total of 63 sites of environmental concern were identified. The list was narrowed by the record review to 29 sites that were observed. Four additional sites of concern were identified during the site observations. Eight sites were identified for additional investigation. See Exhibit 13.

2) Indicate the type(s) of contamination (if any) suspected to be affecting sites in the project area.

Site 70 Petroleum Site 108/J VOCs, PAHs, heavy metals Site 7 Petroleum, VOCs, PAHs, heavy metals, may be other Site 19 Heavy metals, primarily lead Site 53 Petroleum, VOCs, PAHs, heavy metals, may be other Petroleum, VOCs, PAHs, heavy metals, may be other Site 32 Site U Primarily petroleum; may be VOCs, heavy metals, other Site RR Petroleum, heavy metals

3) Indicate the number and identify the parcels which are determined to require an Environmental Site Investigation or for which the Initial project review was not conducted.

Site identified for additional environmental site investigation are:

Site 70 Site 108/J Site 7 Site 19 Site 53 Site 32 Site U Site RR

4) Describe proposed course of action to avoid hazardous materials contamination for this project. For example, changes in location, changes in design, remediation of contaminated areas, etc.

Site 70 Remediation Site 108/J Remediation Site 7 Remediation Site 19 Remediation, changes in design Site 53 Remediation Site 32 Remediation Site U Remediation Site RR Remediation, changes in design

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AESTHETICS

Alternative: C (VP/VE 4R) Preferred? Yes	Portion of project this sheet is evaluating If different from the first Basic Sheet.
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1. Identify the alternative discussed on this sheet if it is different from the proposed action addressed in item on the first Basic Sheet or is different from the "Preferred Alternative" identified on the second Basic Sheet.

N/A

2. Identify and briefly describe the visual character of the landscape. Include elements in the view shed such as landforms, water bodies, vegetation and human developments.

North of Mallard Lane the corridor crosses through a landscape characterized by forested lowland and wetland areas. The crossing of the Rib River is of particular visual interest. North Of Sherman Street, the corridor is mostly commercial and residential.

3. Indicate the visual quality of the view shed and identify landscape elements that would be visually sensitive.

Areas that would be visually sensitive would be adjacent wetlands, wooded canopy, the Big Rib River crossing, and freeway interchange areas.

4. Identify the viewers who will have a view of the improved transportation facility and those with a view from the improved transportation facility. Indicate the relative numbers (low, medium, high) of each group.

A high number of local residents live on or near the corridor and they will have view of the improved transportation facility. A high number of individuals are expected to travel/utilize the corridor as commuters, local and through traffic, and tourists. A low number of views is also represented by boaters and snow mobiles on the Rib River.

5. Indicate the relative time of day (morning, afternoon, evening, night) and the approximate amount of viewing time each viewer group would have each day.

Local residents that live on or near the corridor would have the same amount of view time as they currently do now. The relative time of day of viewing time would not vary after project construction.

Commuters would view the corridor at peak am and PM commuting hours; viewing time would varying according to destination.

6. Describe whether and how the project would affect the visual character of the landscape.

The current view sheds would be altered because of the elevation roadway for the necessary fly-over ramps. Some roadways will be elevated 40-50 feet from the existing profile. Most of the increased roadway elevations are in the local commercial district of the STH29 West Interchange. Natural environment areas will not be substantially altered other than the widened USH512 river crossing corridor. The intersection north of the Rib River is an important consideration of aesthetics and design. Natural and traditional landscaping will be used to restore an aesthetically pleasing landscape.

7. Indicate the effects the project would have on the viewer groups.

Commuters traveling STH 29 to I39/ USH 51 north or south will have a new view landscape dependent on final destinations/ramp and road exits. The I39/USH51 mainline and other project areas will maintain the same view landscape because of the linear nature of the corridor.

8. Discuss mitigation measures to avoid or minimize adverse visual effects or enhance positive aesthetic effects of the project.

Where practicable efforts will be made to minimize or avoid negative effects on view sheds in the project area of wetlands, wooded areas, or the Big Rib River crossing. Aesthetic plantings and architectural features will be considered to the extent possible.